

Version with Markings to Show Changes Made:

1. (Once amended) A plurality of laterally varying diodes ~~each comprising~~ an n-collector region formed on a diode region, wherein each individual diode region has an independently selectable depth including an ion-implanted portion, and each n-collector region has a depth extending from the diode region to a contact surface that is co-planar with the contact surfaces of the other n-collector regions, ~~the plurality of laterally varying diodes further comprising~~ means for substantially electrically isolating each individual diode.

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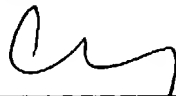
In regard to Claim 2, which depends from Claim 1, the Examiner noted that Seabaugh further discloses a diode region formed as a resonant tunneling diode region. The Applicant believes that the amendments to Claim 1 clarifies the invention and renders Claim 2 allowable.

CLOSING REMARKS:

Applicant respectfully submits, in light of the above amendments and remarks, that Claims 1 and 2 are now in allowable condition. Applicant thus respectfully requests timely allowance of the pending claims.

In the event the Examiner wishes to discuss any aspect of this response, or believes that a conversation with either the Applicant or Applicant's representative would be beneficial the Examiner is encouraged contact the undersigned at the telephone number indicated
5 below.

Respectfully submitted,



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